

#3

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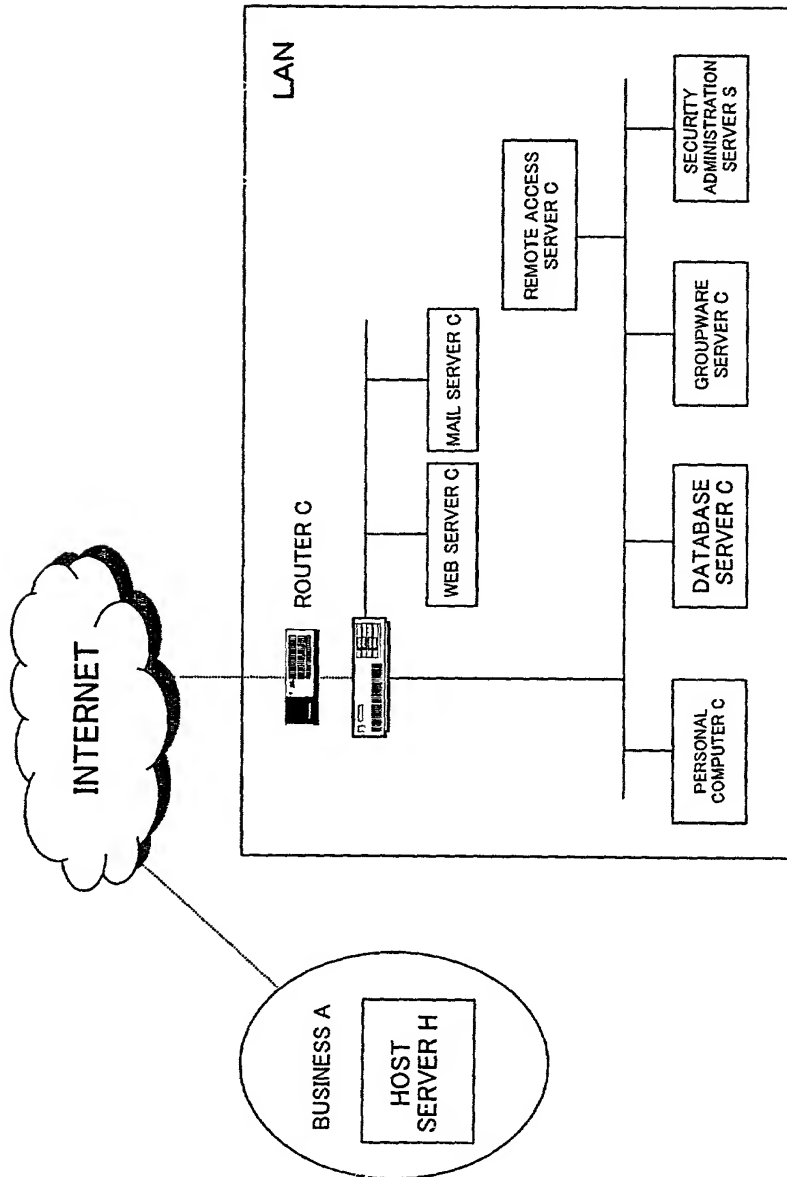


FIG. 1

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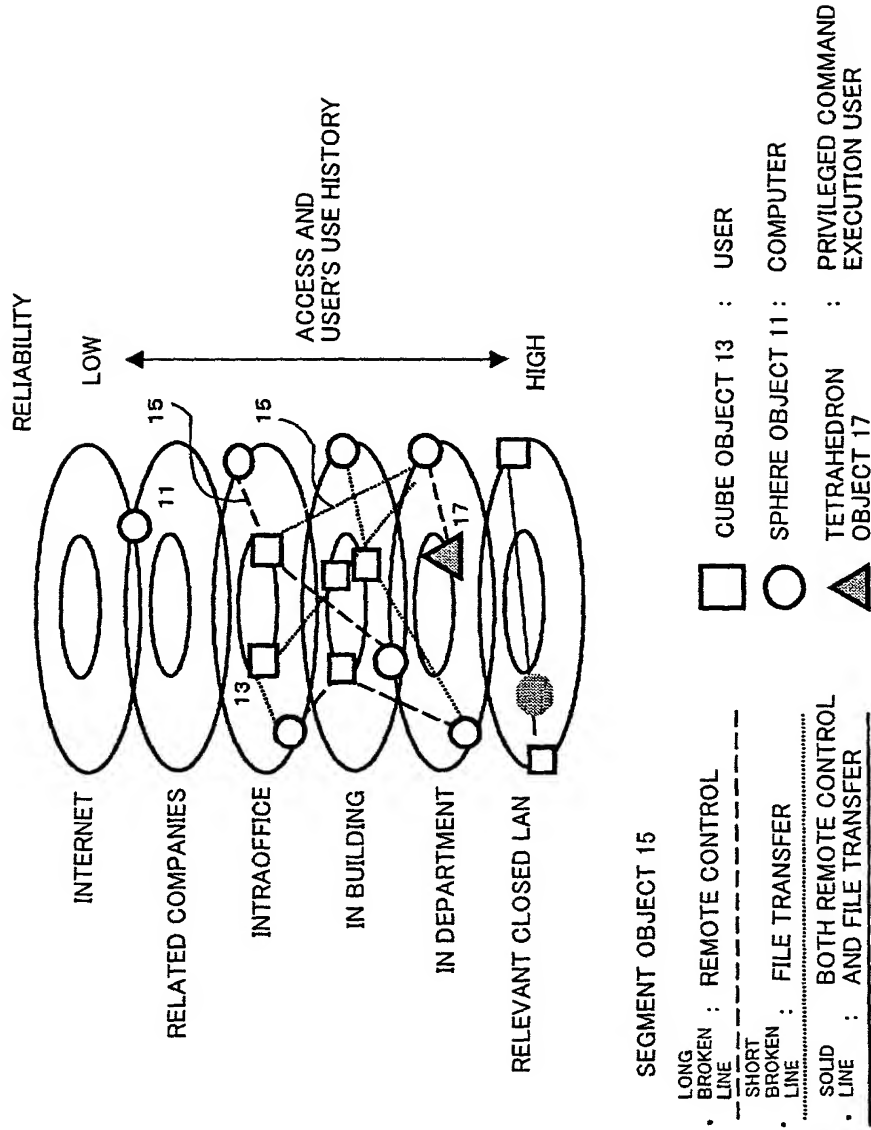


FIG. 2

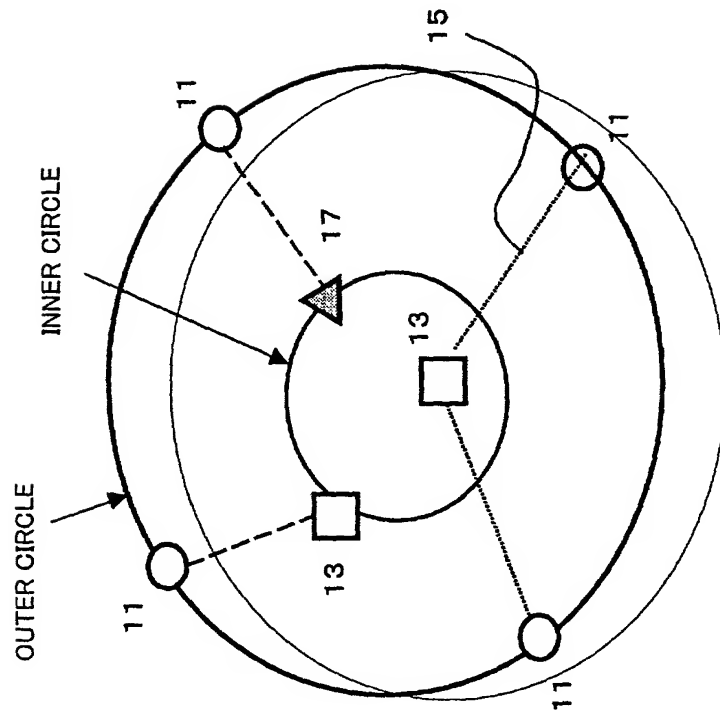


FIG. 3

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DEVICE TO BE MONITORED	DISPLAY METHOD OF LAYERS (GROUP CLASSIFICATION)				DISPLAY TIME		OPERATION OF DISPLAY ANGLE	
	FOR EACH DOMAIN	FOR EACH DEPARTMENT	FOR EACH BUILDING FLOOR	FOR EACH ACCESS TYPE	REAL TIME	PLAYBACK	DEFAULT	ARBITRARY
1 PERSONAL COMPUTER			○		○			○
2 DATA BASE SERVER				○	○			○
3 WEB SERVER	○				○		○	
4 MAIL SERVER		○				○	○	
5								
6								
7								
8								
9								
10								
SETTING ENVIRONMENT	OS				DHCP ENVIRONMENT		LOG COLLECTION TIME	
	unix	unix	unix	Windows	OPEN	SEER DHCP	5 MINS.	ARBITRARY
1 PERSONAL COMPUTER	○					○	○	
2 DATA BASE SERVER	○					○	○	
3 WEB SERVER			○		○		○	
4 MAIL SERVER			○		○			240MINS
5								
6								
7								
8								
9								
10								

FIG. 4

```

Jun 25 01:01:05 comp1 syslog: restart
Jun 25 02:25:58 comp1 ftpd[28855]: connection from kawa.yama.uec.ac.jp
Jun 25 02:25:58 comp1 ftpd[28855]: FTP LOGIN FROM kawa.yama.uec.ac.jp as mana
Jun 25 03:00:05 comp1 ftp[28297]: no rw els file systems in mtab
Jun 25 03:00:05 comp1 ftp[28297]: fs_xfs -m /etc/mtab -t 7200 -f /var/tmp/
Jun 25 03:30:39 comp1 Xsession: mana: login
Jun 25 05:18:03 comp1 ftpd[29785]: connection from kawa.yama.uec.ac.jp
Jun 25 05:18:03 comp1 ftpd[29785]: FTP LOGIN FROM kawa.yama.uec.ac.jp as mana
Jun 25 06:27:52 comp1 Xsession: mana: logout
Jun 25 19:48:15 comp1 login[31071]: ?@mura.yama.uec.ac.jp as cynthia
Jun 25 21:13:25 comp1 Xsession: mana: login
Jun 25 21:14:16 comp1 nix: WARNING: ARP: got MAC address
Jun 25 21:30:43 comp1 Xsession: mana: logout
Jun 26 03:42:18 comp1 ftpd[31806]: connection from kawa.yama.uec.ac.jp
Jun 26 03:42:18 comp1 ftpd[31806]: FTP LOGIN FROM kawa.yama.uec.ac.jp as mana
Jun 26 03:42:18 comp1
Jun 25 01:01:05 comp1
Jun 25 02:25:58 comp1
Jun 25 02:25:58 comp1
Jun 25 03:00:05 comp1
Jun 25 03:00:05 comp1
Jun 25 03:30:39 comp1
Jun 25 05:18:03 comp1
Jun 25 05:18:03 comp1
Jun 25 05:27:52 comp1
Jun 25 19:48:15 comp1
Jun 25 21:13:25 comp1
Jun 25 21:14:16 comp1
Jun 25 21:30:43 comp1
Jun 26 03:42:18 comp1
Jun 26 03:42:18 comp1

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FIG. 5

FIG. 6

FIG. 6

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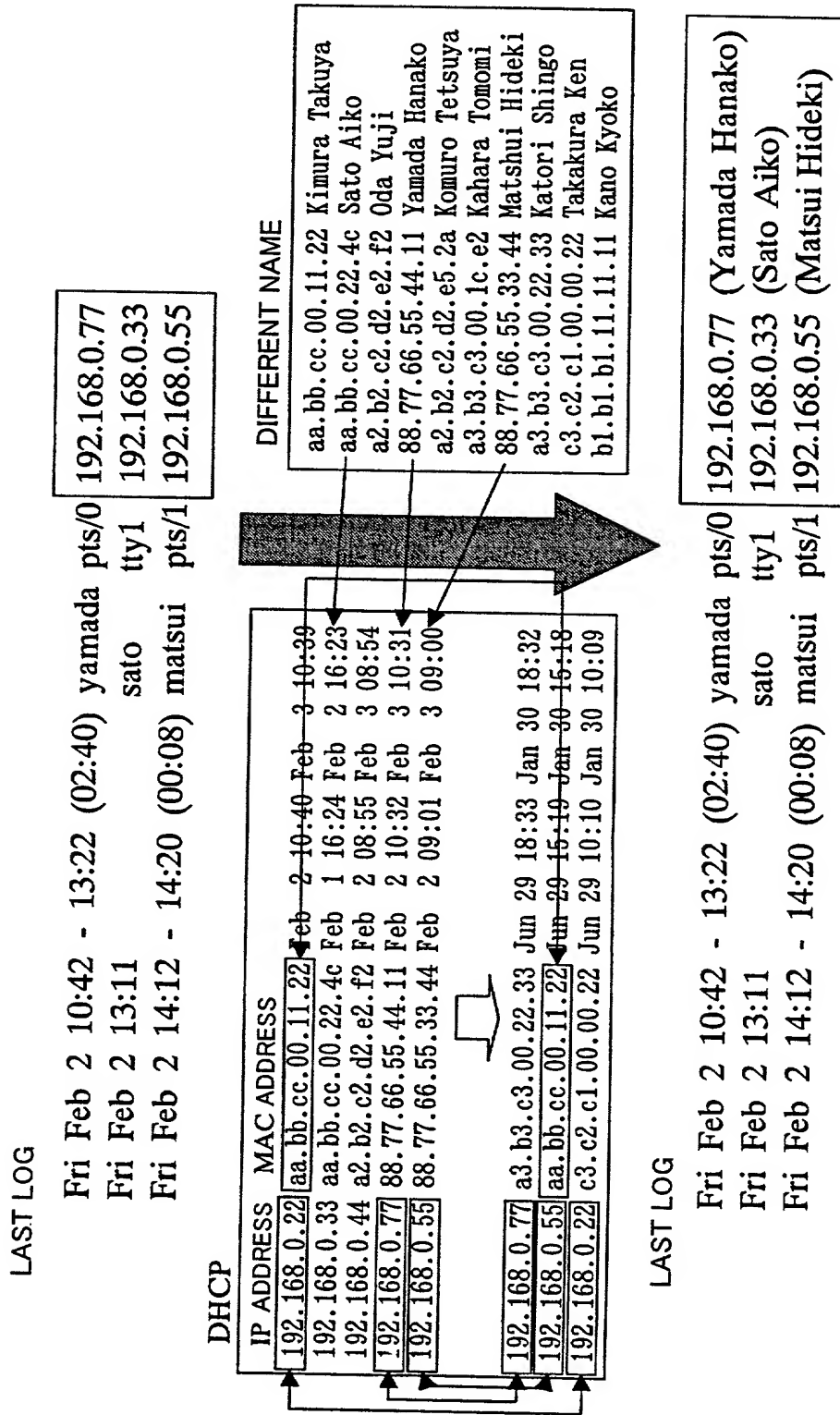


FIG. 7

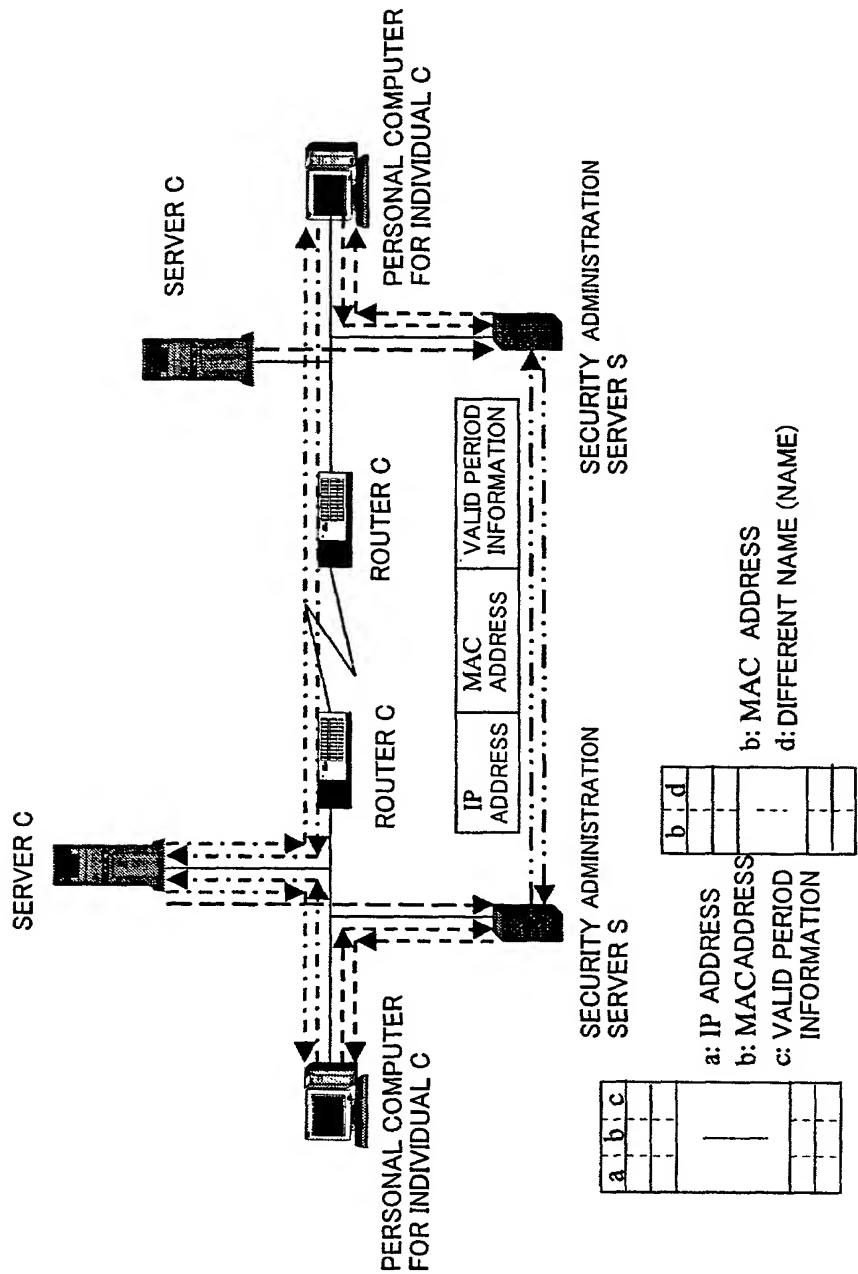


FIG. 8

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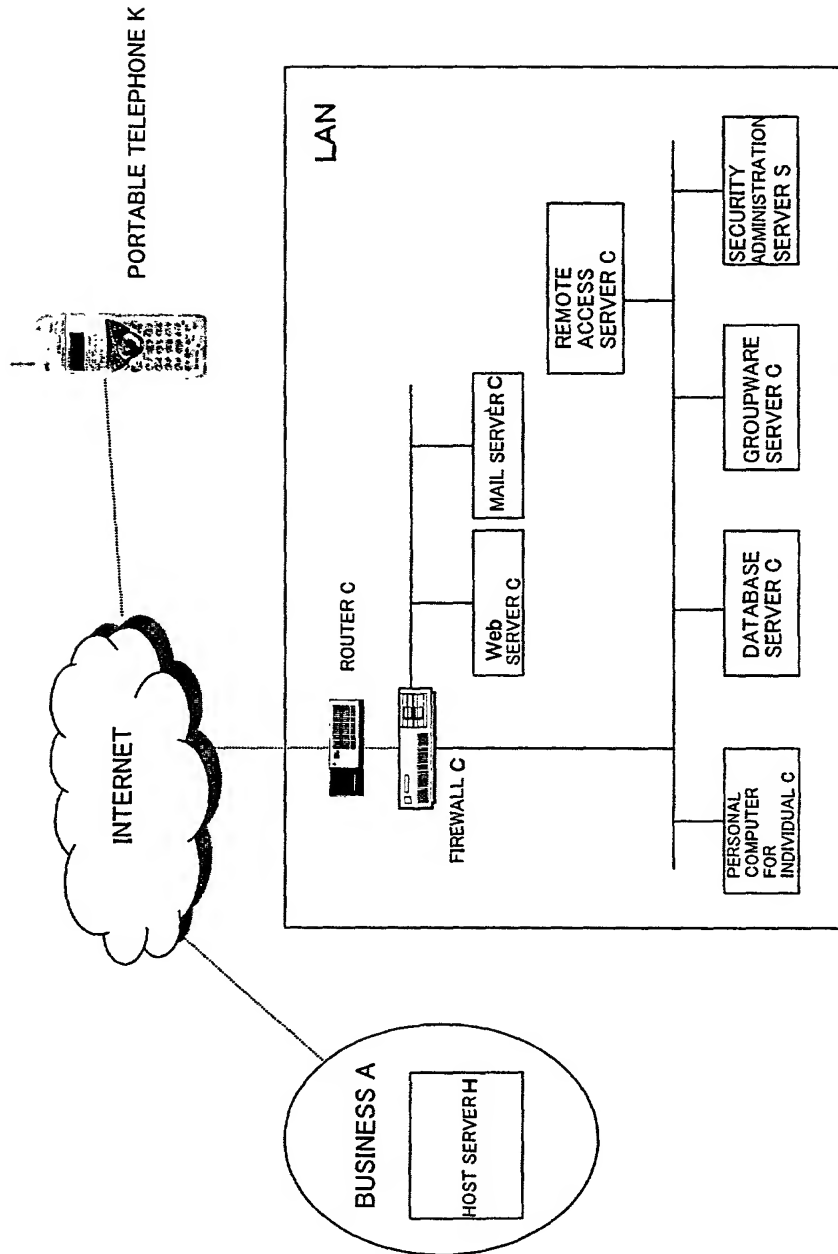


FIG. 9

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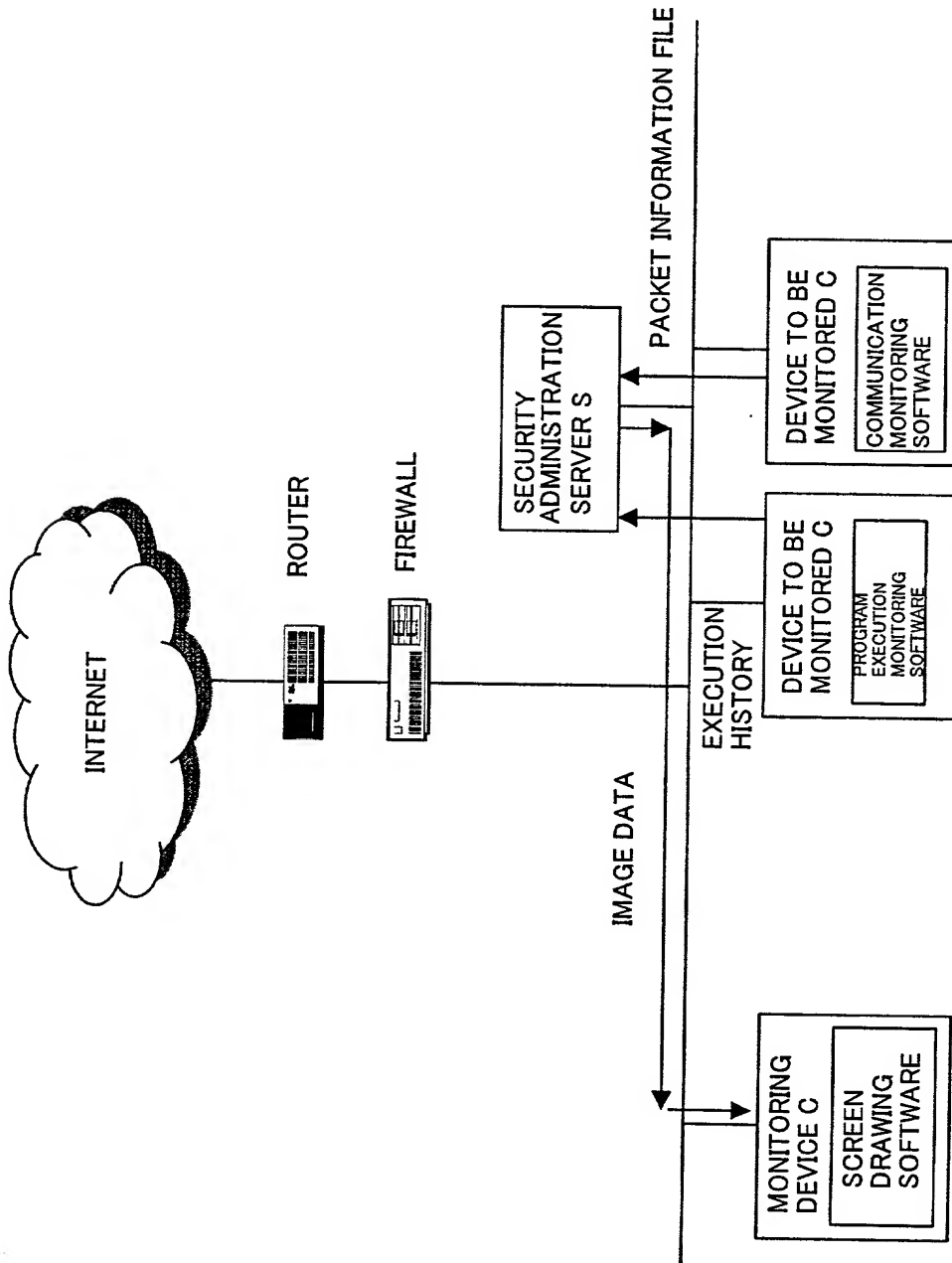
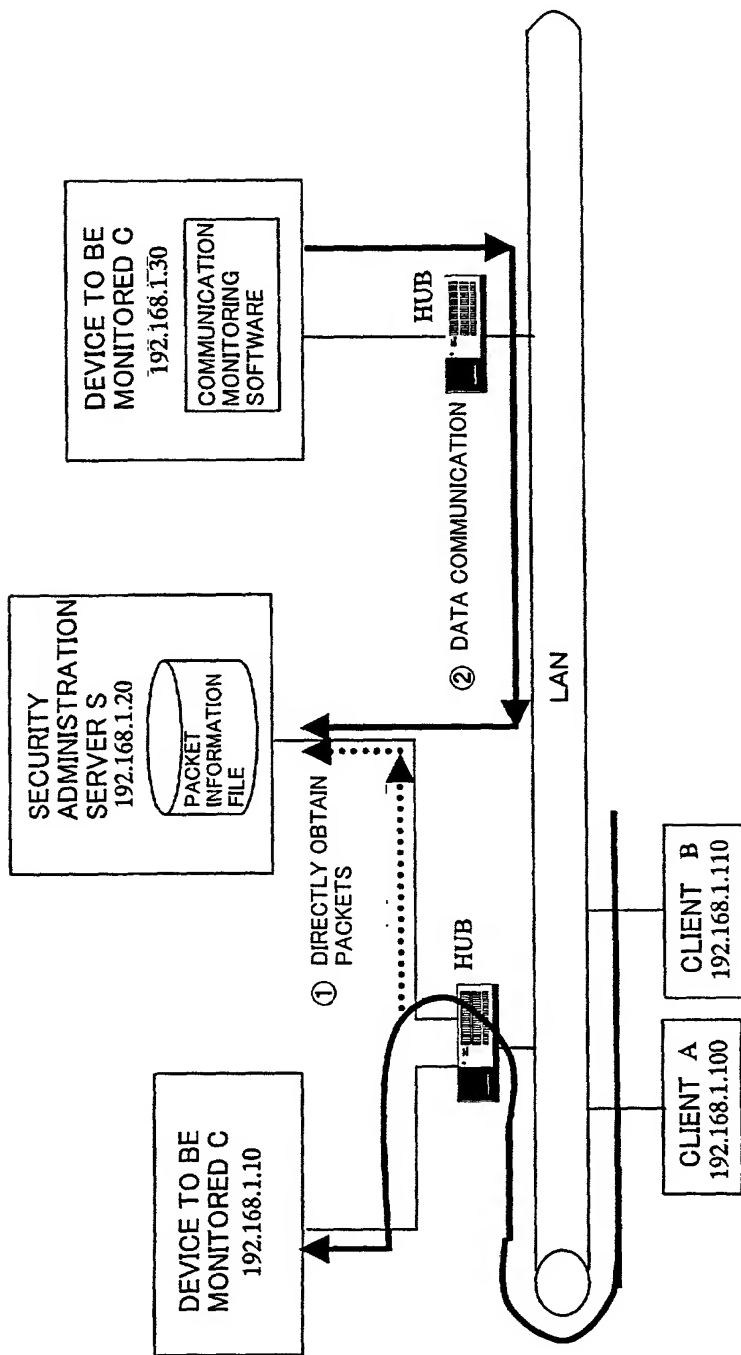


FIG. 10

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- ① COMMUNICATION PACKETS OF DEVICE TO BE MONITORED C CONNECTED TO THE SAME HUB AS SECURITY ADMINISTRATION SERVER S ARE DIRECTLY OBTAINABLE
- ② COMMUNICATION PACKETS OF DEVICE TO BE MONITORED C CONNECTED TO A DIFFERENT HUB THAN SECURITY ADMINISTRATION SERVER S, ARE ACCUMULATED AND STORED AT DEVICE TO BE MONITORED C SIDE, AND CONCENTRATED SUITABLY TO SECURITY ADMINISTRATION SERVER S BY DATA COMMUNICATION VIA LAN.

FIG. 11

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DATA FORMAT OF PACKET INFORMATION FILE

FIELD NAME	DESCRIPTION
time	COLLECTION TIME (SERVER TIME)
btFlags	0:IN 1:OUT (FROM SERVER) 2:SMB (SUCH AS COMMON FILE ACCESS)
wLength	ORIGINAL LENGTH OF PACKET
mwMac	CLIENT MAC ADDRESS
dwIPAddr	CLIENT IP ADDRESS
wPort	SERVER PORT NUMBER
btDataLength	LENGTH OF PORTION OF VARIABLE DATA OF PACKET (0 TO 255)
btData[256]	VARIABLE DATA OF 256 PACKETS (VARIABLE LENGTH)

FIG. 12

BADIC VISUALIZATION DATA

FIELD NAME	DESCRIPTION
time	COLLECTING TIME (TIME AT SECURITY ADMINISTRATION SERVER)
wServerID	IDENTIFIER OF SERVER TO BE MONITORED
wType	TYPE OF PACKET (01:Login...65:Mail...)
mwMac	CLIENT MAC ADDRESS
dwIPAddr	CLIENT IP ADDRESS
wOriginalLength	ORIGINAL LENGTH OF PACKET
btData[256]	CHARACTER DATA FOR EACH TYPE OF 256 PACKETS (Login:UserID/Mail:from.to...)

FIG. 13

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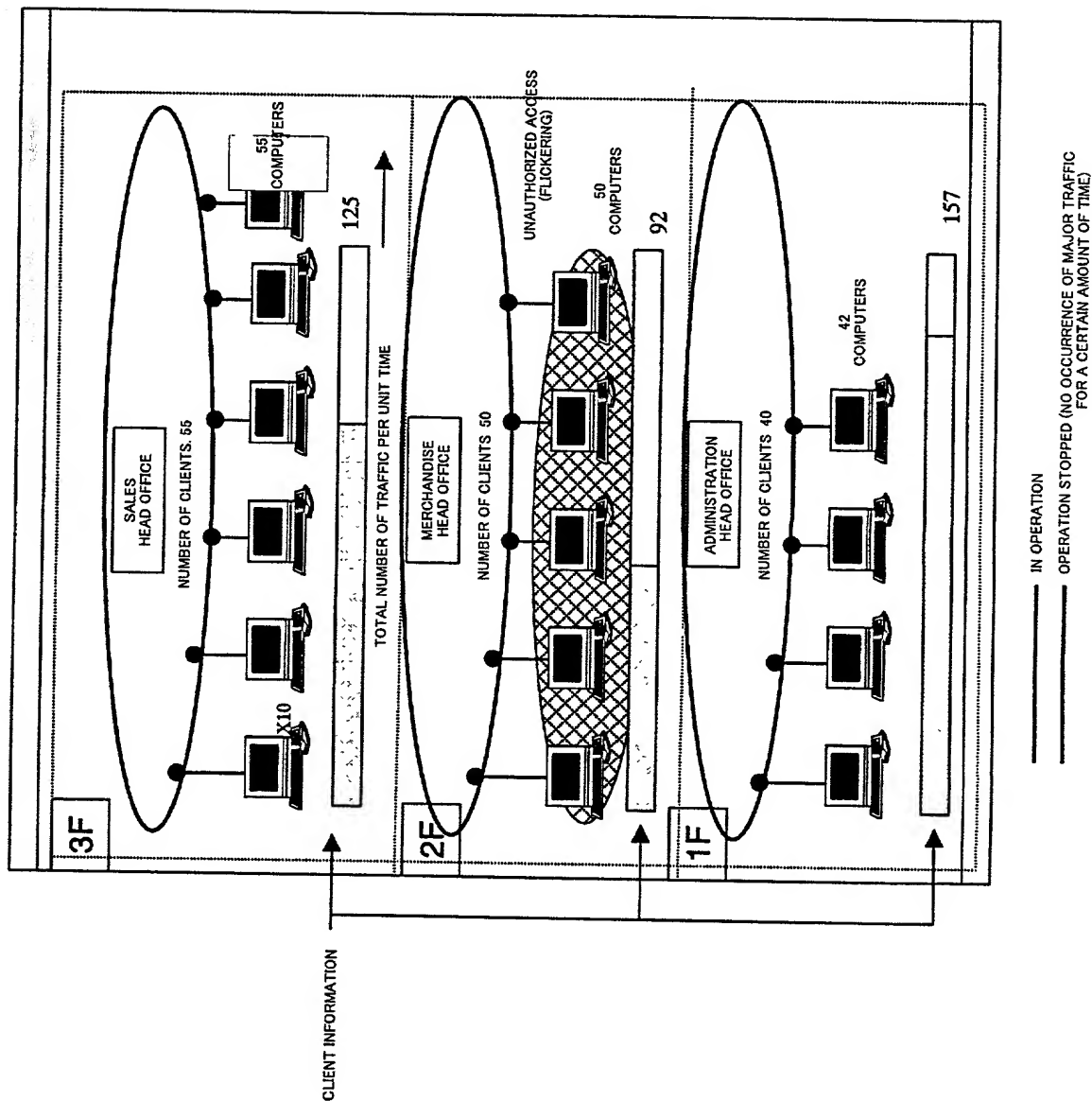


FIG. 14

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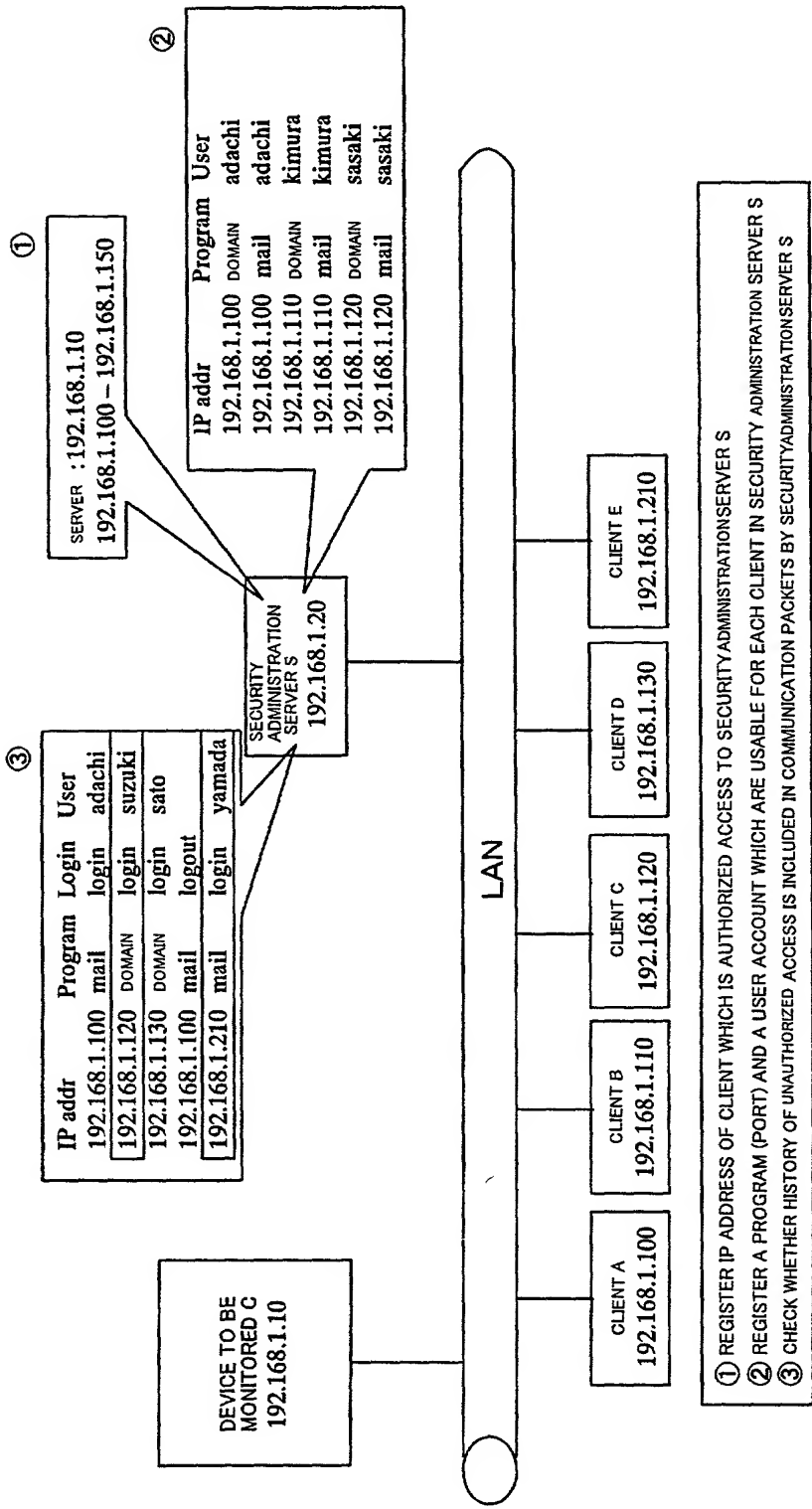
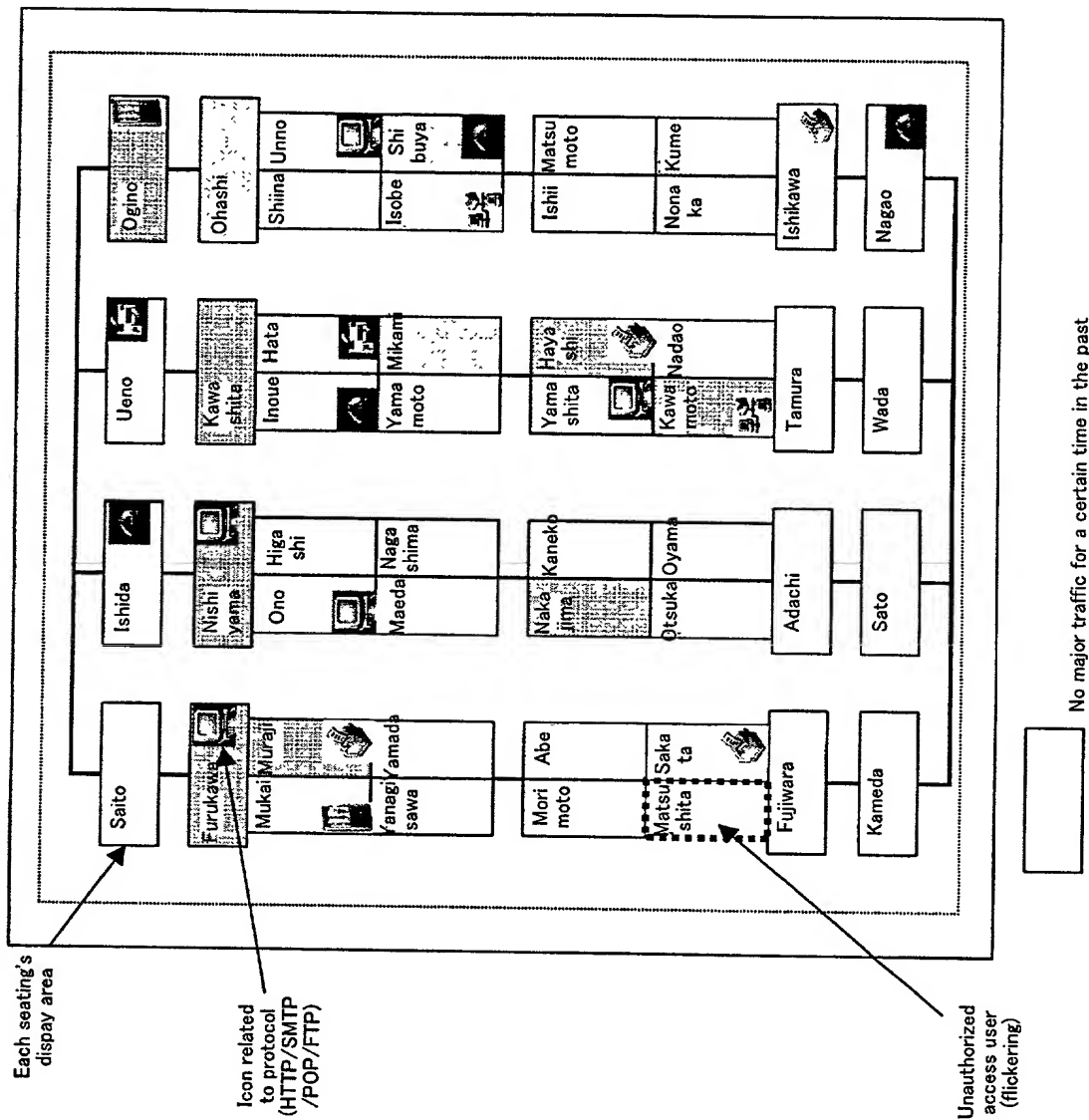


FIG. 15

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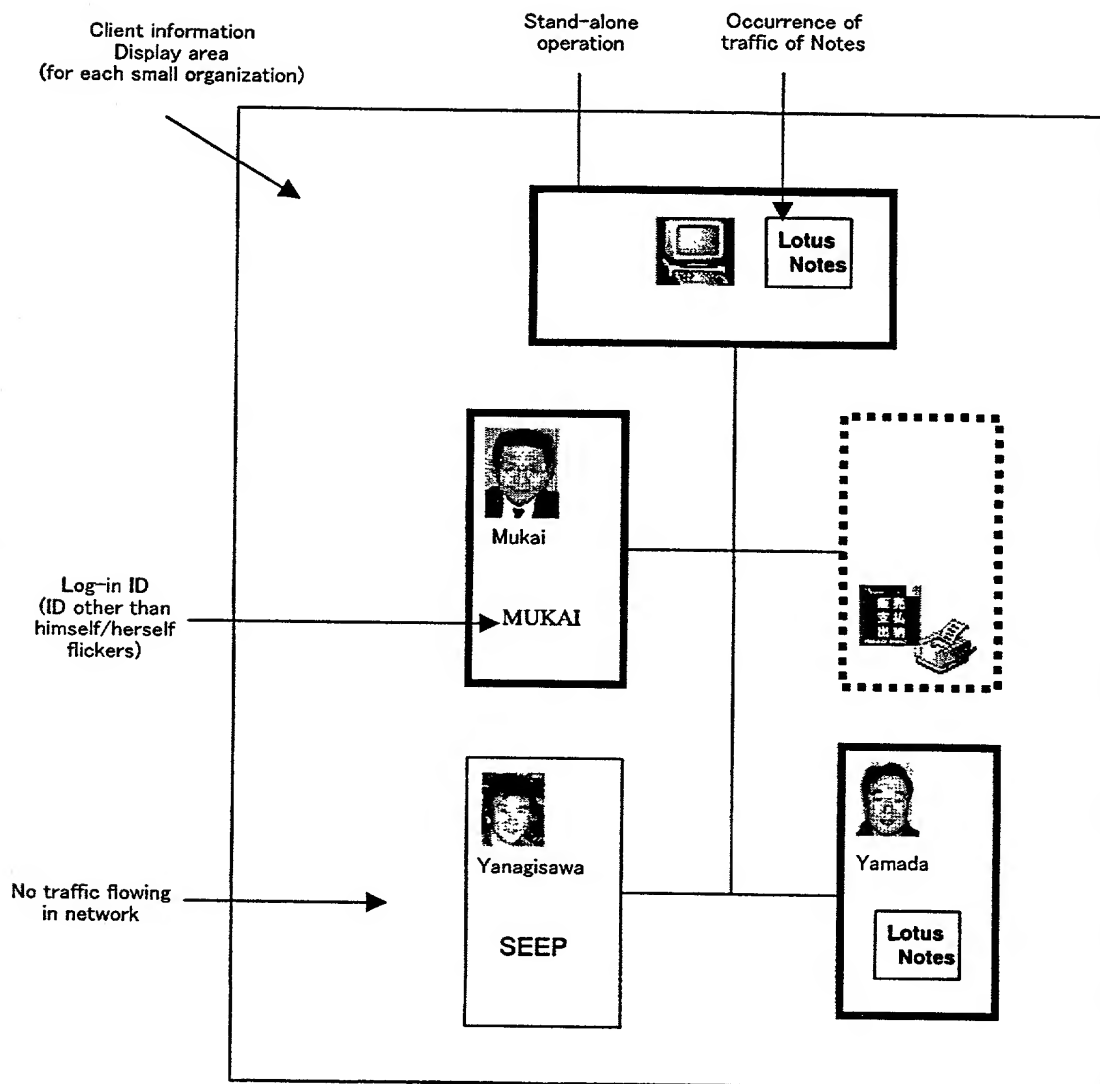


FIG. 17

Client Information Screen		User : Senri Yamada		STATUS:	GROUPWARE
User Information					
Name:	Yamada Senri		Division 1:	Sales division	Derivative Planning
IP Address:	202.10.181.89		Email:	yamada@seer	Section Chief

Info. System:	Notes	Client Mngmt. System	Market Prediction System	Application:	Office 2000
Used Database:	CLIENT DB	Customer DB	Personnel DB		
DB Usage Authority:	3:Browse	2 : Update	4 : Partial Browse		

Usage Information ☐ Past 1 hour ☒ Today's History ☐ History of (Month), (Date)

Icon	Time	Action	System / Resource
	8:20	Office login	Network login
	8:30	start IE	Print via Server
	8:31	gao	
	8:32	hittech	
	8:30	e-track	
	8:35	news.doc	Interoffice business system
	8:35	web	
	7:30	login	DB access
	8:16	logout	
	11:30	login	
	7:30	login	File update
	8:16	logout	
	11:30	login	
	11:31	Bulletin board	Others
	14:10	login	
	14:11	Payment system	
	9:15	Fron. Ishihara @	Business System
	9:15	To: mukai @	
	9:25	To: sato @	
	15:50	client DB	Inner Web Application
	16:12	customer DB	
	17:18	personal DB	
	16:26	customer DB/new register	Outer Web Application

FIG. 18

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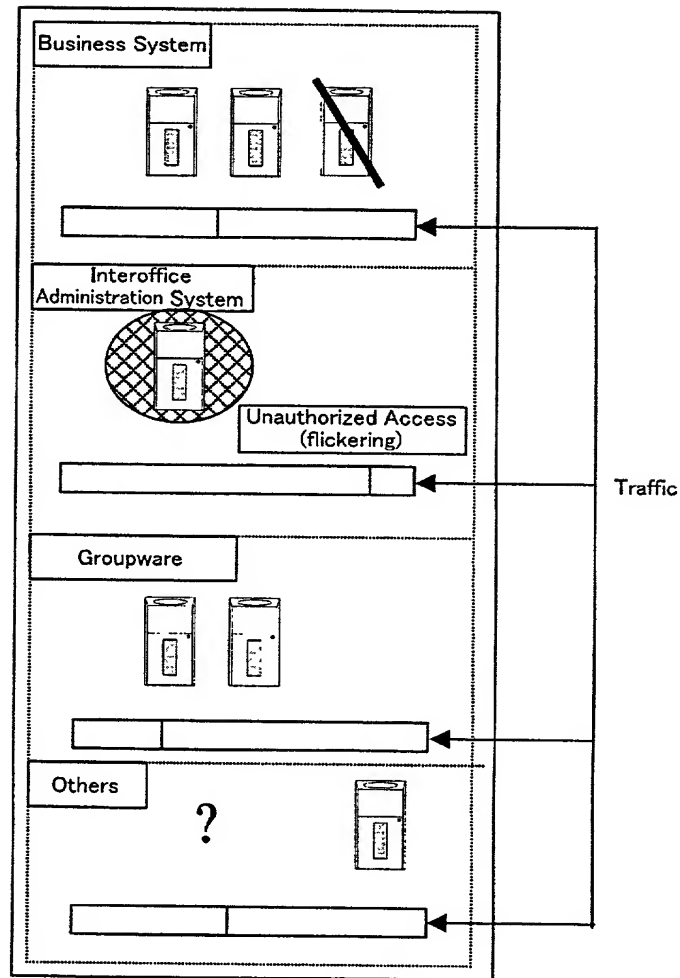


FIG. 19

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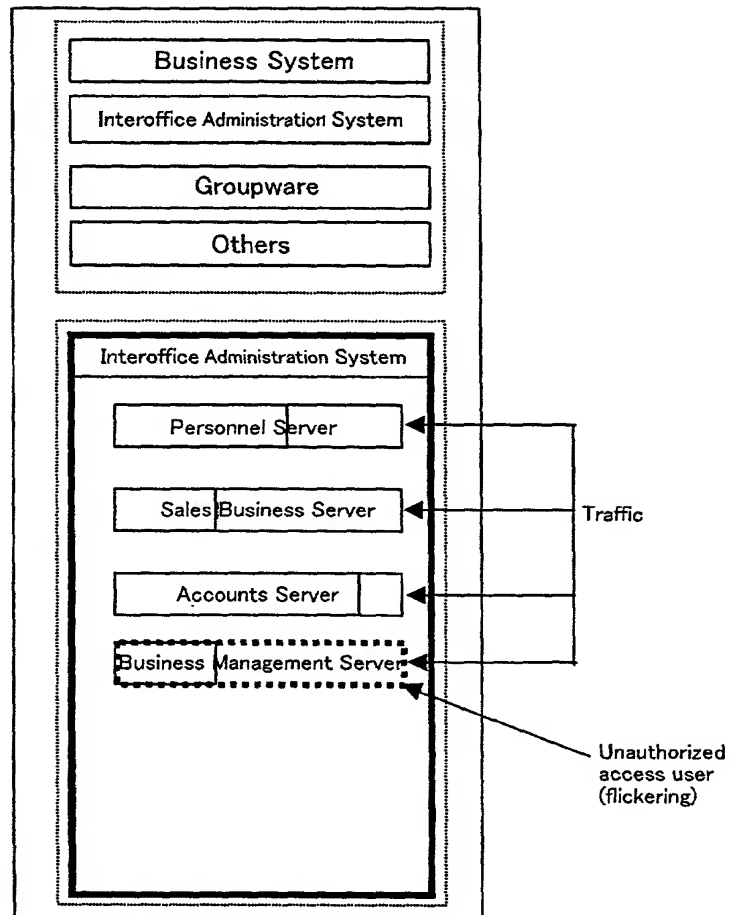


FIG. 20

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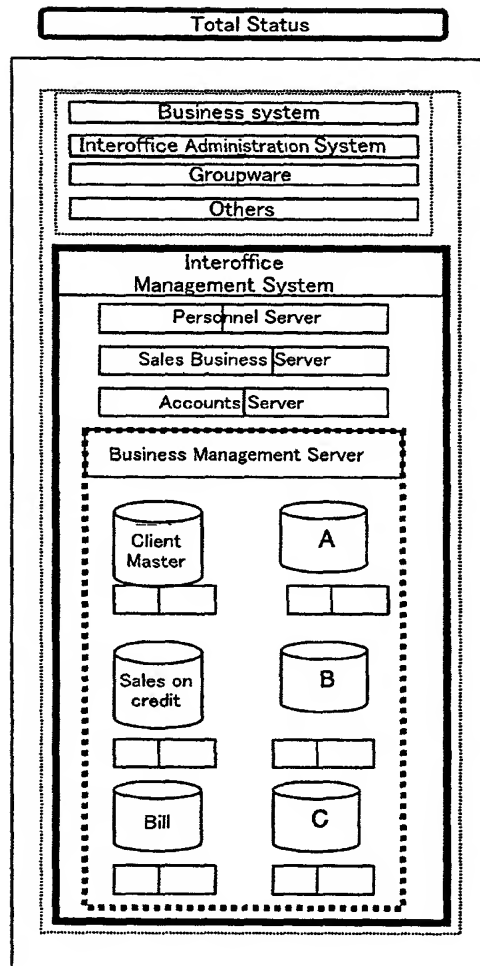


FIG. 21

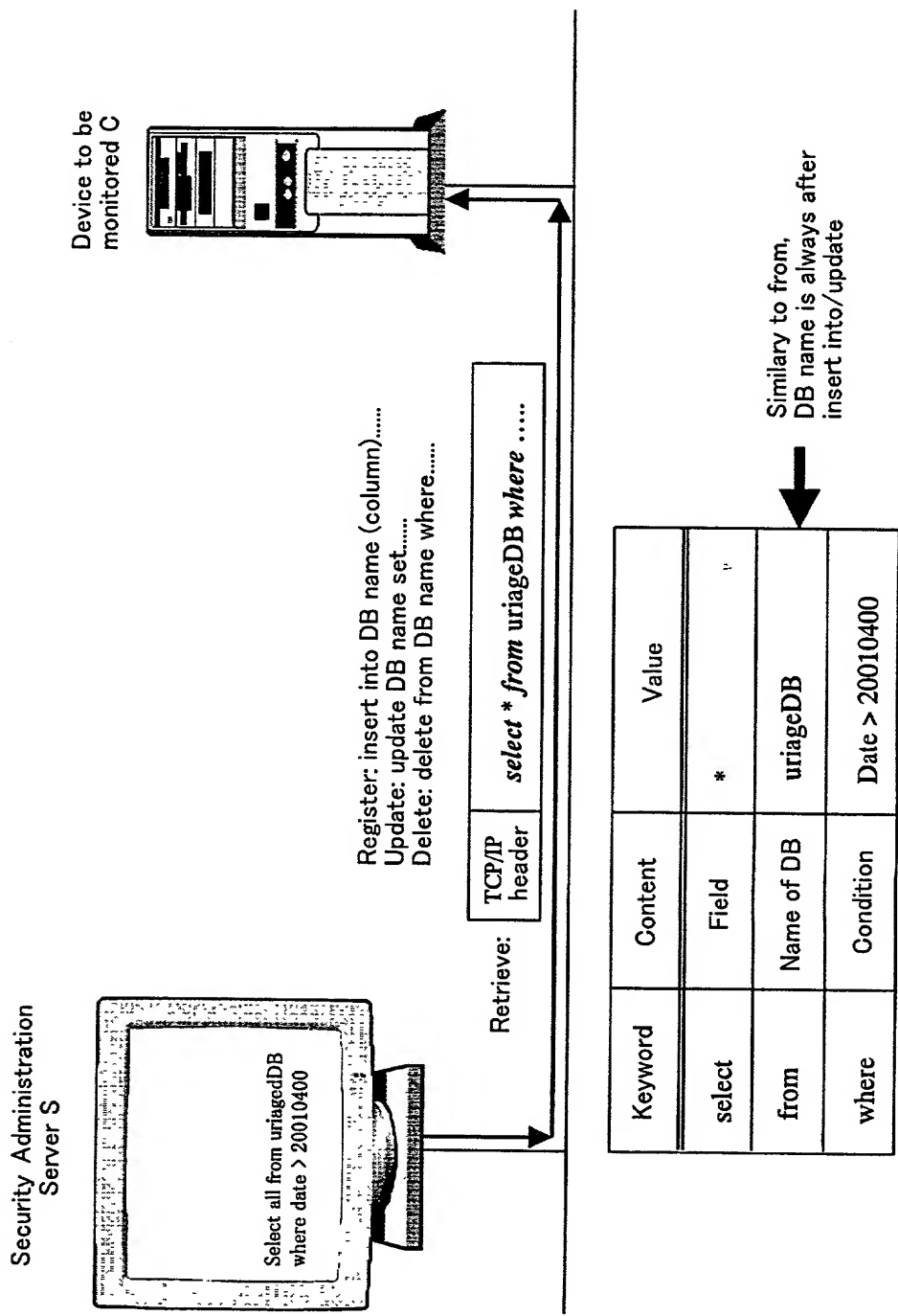


FIG. 22